SONY

3-267-590-**12**(1)

Integrated Remote Commander

Operating Instructions

RM-AV2500

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WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

WARNING

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

For the customers in the USA

Owner's Record

The model number is located on the front panel.
The serial number is located on the inner side of the battery compartment.
Record these numbers in the spaces provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. RM-AV2500
Serial No. _____

NOTICE FOR THE CUSTOMERS IN THE U.S.A.

NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help.

Features

The RM-AV2500 Remote Commander provides centralized control of all your AV components from a single remote commander and saves the trouble of operating different AV components with different remote control devices. The following are its main features.

Centralized control of Sony AV components with this one remote commander

This Commander is preset at the factory to operate Sony brand components, so you can use it out of the box as a control center for your Sony AV components.

Remote control signals for non-Sony components are also preset

This Commander is preset for most major brands components including Sony. You can remote control your components by setting their code numbers (page 8).

Learning function for programming other remote control signals you need

This Commander has a learning function, to learn remote control signals to operate non-preset components or functions (page 15).

In addition, the Commander can learn remote control signals (infrared signals only) of non-Audio Visual components such as air-conditioners, lights, etc. (some specific appliances or functions may not be available) (page 35).

Setting a maximum of 24 macro commands of a maximum of 32 successive steps

A maximum of 24 macro commands which provide a maximum of 32 successive steps by pressing a single button can be set (12 system control macros and 12 component macros). Macro execution speed is changeable. All power on/off macro commands for Sony components are preset at the factory.

Multi component in one screen

When you operate a lot of equipment all together, you need not change the screen. When watching a DVD, the DVD run system key, the Power key for TV and Receiver or the input change key can be displayed on one screen, and it can be operated, without switching the screen.

Alias function

Keys memorized on other screen can be link, it is not necessary to learning again. For example, it is useful to display the Power key for TV or the input change key on the CABLE screen (page 43).

Channel macro function allows you to select a channel with a single key

Up to 4 key steps can be programmed on macro keys. If you set the key operations for entering a channel number on a macro key, you can select the channel by pressing that macro key (page 41).

Easy-to-operate touch key LCD with blue back light

This Commander has a touch key LCD that changes the key display according to the selected component. The Commander is easy to operate as only the keys necessary to operate the selected component are displayed. The display backlight allows operation even in the dark.

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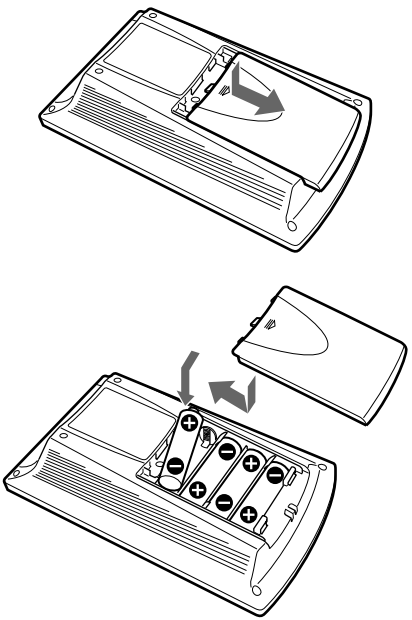
Installing the Batteries

Slide open the battery compartment lid and insert four size AA (R6) batteries (not supplied). Be sure to line up the + and – on the batteries with the + and – on the battery compartment.



When to replace the batteries

Batteries for remote control operation and backlight (four size AA (R6) batteries)

Under normal conditions, alkaline batteries will last up to 5 months. If the Commander does not operate properly, batteries might be worn out and ⚠ is displayed on the LCD touch panel. When the display dims or the backlight for the touch keys grows dim, replace the alkaline batteries with new ones.

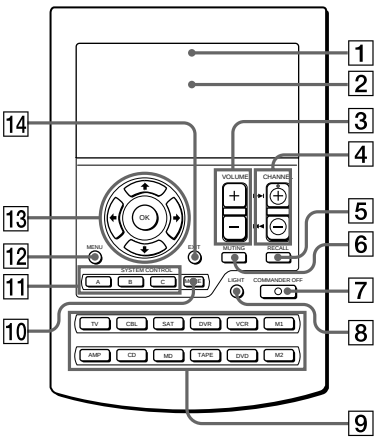
Note

Do not take more than one day to replace the batteries; otherwise, your setting of the code numbers (page 8) and learned remote control signals (page 15) will be erased.

Notes on batteries

- Do not mix old batteries with new ones or mix different types of batteries together.
- If the electrolyte inside the battery should leak, wipe the contaminated area of the battery compartment with a cloth and replace the old batteries with new ones. To prevent the electrolyte from leaking, remove the batteries when you plan not to use the Commander for a long period of time.

Location and Function of Controls



1 Component display area
Displays the name of the component selected.

2 LCD touch key display (page 9)
The keys used for operating each component are displayed.

Note
Do not press the touch keys using sharp objects such as pins or ball-point pens.

3 VOLUME +/– buttons* (page 14, 22)
Adjusts the volume.

4 CHANNEL +/– buttons
Selects the channel.

5 RECALL button (page 44)

6 MUTING button* (page 14, 22)
Mutes the audio. Press the button once again to resume at the previous volume.

7 COMMANDER OFF button
Turns the power of the Commander off.

8 LIGHT button (page 49)
Used to light up the LCD display in the dark. Press the button once to turn on the light, and once again to turn it off. You can also set the backlight to go off automatically after a certain period of time.

9 Component Select buttons
Selects the component to control.

10 MORE button (page 23)
Displays the SYSTEM CONTROL buttons and number keys.

11 SYSTEM CONTROL buttons (page 22)
You can program up to 32 consecutive key operations to each of the three SYSTEM CONTROL buttons. You can automatically carry out the entire program by pressing one button.

12 MENU button
Calls up the menu display of the buttons or keys that have menu function.

13 OK button and Cursor Control buttons (page 15)

14 EXIT button
Used to exit the setting menu.

* ***Note on the VOLUME +/– and MUTING buttons***
The Commander controls or mutes the TV's volume when you select a visual component. The Commander controls or mutes the amplifier's volume when you select an audio component.
You can change this setting also (page 21).

Note on the power on and off of the Remote Commander
To turn on, press any button except the COMMANDER OFF button or touch the screen. To turn off, press COMMANDER OFF, or if you do not use the Commander, it automatically turns off after 10 minutes. This interval can also be changed (page 47).

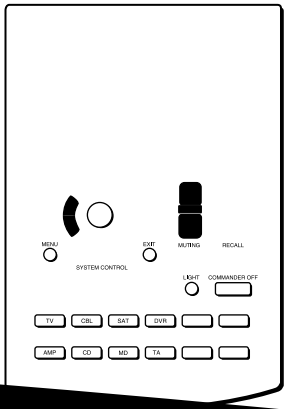
ng the Code for t Audio and Visual ponents

mander is preset at the factory te Sony brand AV components table below). If you are using the nder with a factory-set Sony ents, skip the following ures.
use the Commander with other AV components also. To use with V components, you need to follow cedures to set the correct codes for mponent.

o- elect n	Preset component(s)	Factory setting
TV		Sony TV
CBL		
SAT		
DVD		
DVI		
M1		
VC		
A		
C		
M		

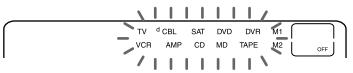
See “Table of Preset Functions” (page 59) for the functions of keys and buttons as for each component.

Setting a component code



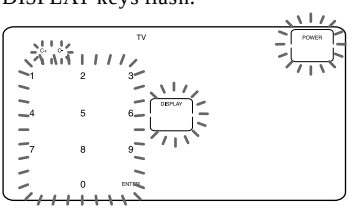
2 While pressing COMMANDER OFF, press MUTING.

All the component names in the display flash.

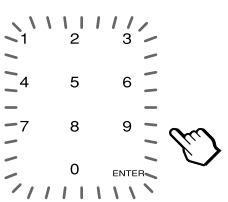


3 Press the Component Select button for the desired component.

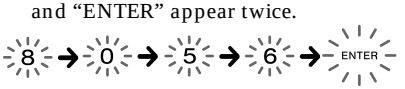
The selected component remains displayed, and the 0 – 9, ENTER and DISPLAY keys flash.



4 Press the four-digit component code number followed by the ENTER key on the touch-key display.

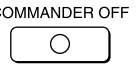


A beep sounds, and the code number and “ENTER” appear twice.



5 If you want to set a code for another component, repeat Steps 3 and 4.

6 Press COMMANDER OFF.



Notes

- If you press a component code number that is not on the table in the supplied “Component Code Numbers,” the Commander beeps and “NG” flashes after you press the ENTER key. If this happens, check the component code number, and try setting again.
- If you do not input anything into the Commander for over two minutes between each step, the setup procedure will be canceled. To set the code, you must press MUTING again while pressing COMMANDER OFF.
- The first digit of the component code number means the component category (TV, VCR, etc.). The component corresponding to the four-digit component code number is preset in Step 4.

To check which code number is set

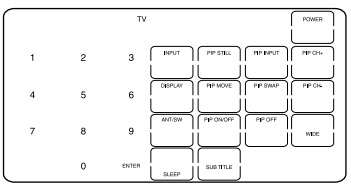
Press the DISPLAY key in Step 3 to 5. The code number and “ENTER” appear twice.

Continued

Checking if the code number works

1 Press the corresponding Component Select button for the component you have set up.

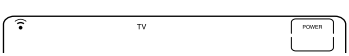
The Commander turns on and the touch-keys appear on the display.



2 Power on the component with its power switch.

3 Aim the Commander at the component and press the POWER key in the touch-key display.

When the remote control signal is sent, ((•)) is shown on the display.

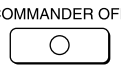


The component should power off.

4 If you have succeeded, check that the Commander is operating the other functions of your component, such as channel and volume control.

See page 13 for details.

5 Press COMMANDER OFF.



If the Commander does not seem to be working

Try repeating these setup procedures using the other codes listed for your components (page 8).

Notes on keys which have “learned” a remote control signal already

If another signal has already been programmed on that key or button by the learning function (page 15), that “learned” signal will work even after you set the component code number. To use it as a preset component key or button, first erase its learned signal (page 19).

Note on the touch-key display

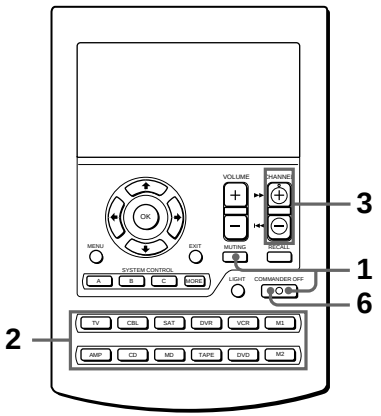
When you set a component code number, only the keys that have been preset with the signals for the desired component will be displayed. Preset signal of each key varies depending on the brand. By using the learning function, you can program remote control signals to both the displayed keys and keys that are not displayed (page 15).

Finding a component code with the Search function

You can find a code number available for a component that does not have one in the supplied “Component Code Numbers.”

Before starting the Search function

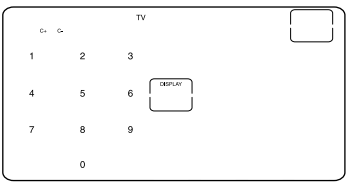
Set each component to the following status to enable the Search function.
TV: Power-on
VCR, DVD, SAT, CBL, AMP: Power-off
CD, MD, TAPE: Power-on with a playback source (disc, cassette tape, etc.)



1 While pressing COMMANDER OFF, press MUTING.

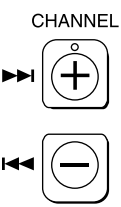
All the component names on the display flash.

2 Press the Component Select button for the desired component.



3 Press CHANNEL + or CHANNEL – to search component code numbers in the same category (in this case, code numbers which begin with “8”).

Press CHANNEL + to go to the next code number.
Press CHANNEL – to go back to the previous code number.



Note

To search component code numbers in another category, return to Step 3, or input a four-digit component code number of another category (for example, a code number which begins with “3”, “4”, etc.) before Step 4.

Continued

4 Aim the Commander at the component and press the POWER key.

When the remote control signal is sent, ((•)) is shown on the display.

If it successfully works (power-off for TV, power-on for VCR, DVD, SAT, CBL, AMP, and playback for CD, MD, TAPE), go to Step 5.
If it does not, repeat Steps 3 and 4.

5 Press the ENTER key.

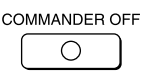
A beep sounds, and the code number and "ENTER" appear twice.

8 0 → 5 → 6 → ENTER

Note

It is recommended to write down the code number.

6 Press COMMANDER OFF.



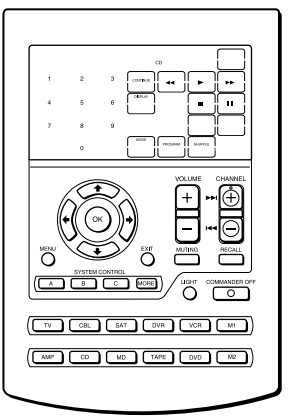
To check which code number is set

Press the DISPLAY key in Step 2 and 5. The code number and "ENTER" appear twice.

Be sure to press the DISPLAY key after you have pressed the ENTER key to set the code number. If you press the DISPLAY key before the code number is set, it returns back to the first number at which you started searching.

Operating Your Components with the Remote Commander

When you operate a non-Sony component, make sure you set the component code first (page 8).



Example: To play a CD player

1 Press the desired Component Select button.

The Commander comes on and the keys for operating the selected component are displayed.

To control the volume

Press the VOLUME +/– buttons to control the volume, and the MUTING button to mute. When you select a visual component, the TV's volume will be controlled, and when you select an audio component, the amplifier's volume will be controlled. You can change this setting also (page 21).

Notes

- If you have programmed any signal for the VOLUME or MUTING button for any component using the learning function (page 15), that signal will be transmitted instead of controlling the volume of the TV or amplifier once you select that component.
- If you have programmed any signal for the VOLUME or MUTING button of TV or AMP using the learning function, that signal will be transmitted only after you select TV or AMP. When you select another components, the preset volume control signals for TV or AMP will be transmitted at that time.
- If you have assigned another component to the TV or AMP button, the volume of the TV or amplifier cannot be controlled even when you select other components.

Notes on operating your components

About the input select of a TV

The component code "8077" is the preset code number for the input select of a Sony TV. You can set this code number for an infrequently used Component Select button.
Follow the procedure on page 8 for the input select setting.

"0" : TV tuner
"1" : VIDEO1
"2" : VIDEO2
"3" : VIDEO3
"4" : VIDEO4
"5" : VIDEO5
"6" : VIDEO6
"7" : HD1
"8" : HD2
"9" : HD3

This setting can be used for programming the SYSTEM CONTROL buttons (page 41).

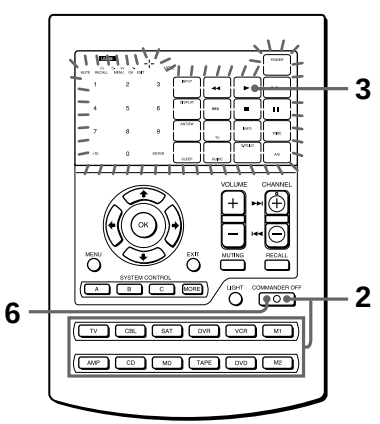
Using Non-Preset Remote Control Operations

— Learning Function

To operate non-preset components or functions, use the following “learning” procedure to “teach” any of the programmable buttons and keys to operate the functions of another remote control. You can also use the learning function to change the signal of individual keys and buttons after setting the component code number (page 8). It is useful if you make a memo of the learned key functions in the LCD touch key display table (page 68).

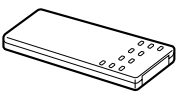
Note

Some specific remote control signals may not be learned.



Example: To program the ► (Play) signal of your component to the VCR ► (Play) key of the Commander

1 Place the RM-AV2500 head to head with your component’s remote control.



2 While pressing COMMANDER OFF, press the Component Select button for the component whose signals are to be learned.

“LEARN” appears and all the learnable keys flash.

Using Non-Preset Remote Control Operations — Learning Function (continued)

The "C+ C- V+ V- MUTE RECALL MENU OK EXIT ↑ ↓ ← →" display indicates if CHANNEL + /–, VOLUME + /–, MUTING, RECALL, MENU, OK, EXIT and cursor (← → ↑ ↓) buttons are learnable or not.

Note on the flashing display

The keys or buttons that are already preset for the component flash twice while those that are not preset flash once.

3 Press the key or button on the Commander you want to "teach."

"LEARN" flashes and the only pressed key remains on the dislplay.

To teach on the CHANNEL +/–, VOLUME +/– , MUTING, RECALL, MENU, OK, EXIT and cursor buttons

Press the corresponding button. "LEARN" flashes, and only the pressed button remains indicated on the display ("C+," "C–," "V+," "V–," "MUTE," "RECALL," "MENU," "OK," "EXIT," or "↑ ↓ ← →").

Example: When pressing the VOLUME + button

To change the function display of the key

Follow the procedure on page 18.

4 Press and hold down the button on the other remote control until you hear a beep.

(If you release the button before you hear a beep, the signal may not be learned correctly.)

"LEARN" stops flashing and stays lit. When the command has been learned successfully, the learned keys stay lit and the other learnable keys flash.

If "NG" flashes on the display

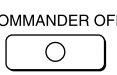
Learning did not succeed. Try Steps 3 and 4 again.

5 Repeat Steps 3 and 4 to teach functions to other kyes or buttons.

To learn another component's remote control signal

After positioning the two remote commanders as in Step 1 on page 15, press the corresponding Component Select button, and then follow Steps 3 and 4 on the left to perform learning.

6 Press COMMANDER OFF.



Notes

- If you do not perform learning steps within two minutes, learning mode ends.
- If you do not perform Step 4 within 10 seconds after Step 3, the display turns back to the display in Step 2. (All the learnable keys flash.) In this case, perform Step 3 again while the display is flashing.
- If "NG" appears while learning, the memory is full. To free memory, clear learned functions from keys that you do not use often (page 19). Then continue the learning steps.
- If you touch a key by mistake in step 4, while pressing the LIGHT button, press the mistaken key. Then repeat from Step 3 to continue learning.

If the Commander does not seem to be working

If the learned key or button does not operate properly, teach once again. (For example, if the volume becomes very loud after pressing the VOLUME + button only once, noise may have interfered during the learning procedure.)

If you set a component code after learning a signal

If you have programmed any signal for a key or button using the learning function, that signal will remain assigned to that key or button even after you set a component code.

When you teach signals to the VOLUME or MUTING buttons

- If you have programmed any signal on the VOLUME or MUTING button for components other than TV and AMP using the learning function, that signal will be transmitted only when you select that component.
- If you have programmed any signal on the VOLUME or MUTING button for TV or AMP using the learning function, that signal will be transmitted only when you select TV or AMP. When you select other components, the preset volume control signals for TV or AMP will be transmitted (for the difference between visual components and audio components, see page 21). To use the learned signal, you need to program the VOLUME or MUTING button for each component using the learning function.

When you teach the signals of an air-conditioner

See the notes on page 37.

Using Non-Preset Remote Control Operations
— Learning Function (continued)

To display only the frequently used keys

You can hide keys you do not use. This makes operations even easier to understand, when the components have many keys.

After Step 2 (page 15), while pressing the LIGHT button, press the key you want to hide (flashing). The pressed key changes to slower flashing and will no longer be displayed during remote control operations.
To display it again, perform the same procedure again.

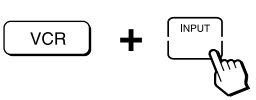
Note

You can not hide a key which has "learned" any signal.

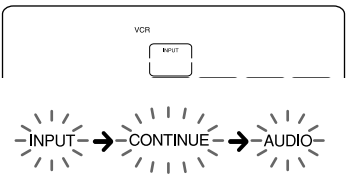
To change the function display of a key

When you program a signal for a key, you can select the most suitable function display among all the displays the key has, and set it to the key.

1 After Step 2 (page 15), while pressing the Component Select button (VCR), press the key you want to teach repeatedly.



Each time the key is pressed, the display is changed in order.



2 When the desired display appears, release the Component Select button.

3 Then follow Steps 4 to 6 (page 16).

Notes

- You can change the display of a key only when you program it using the learning function. If you want to change the display of the key that has learned a signal, clear the signal first (page 19). Then teach the key again using the above procedure to change its display.
- If you do not change the display of a key, the default display is used.
- You cannot change the display of the keys that are not framed with ▭ (the number keys 0 to 9, +10 and ENTER).

For accurate learning

- Do not move the remote units during the learning procedure.
- Be sure to keep holding down the button of the other remote control until you hear the confirmation beep.
- Use fresh batteries in both remote control units.
- Avoid learning in places under direct sunlight or a strong fluorescent light.
- The remote control detector area may differ depending on each remote unit. If learning does not work, try changing the positions of the two remote control units.
- When you teach signals of an interactive signal exchange system remote control unit (supplied with some of Sony's receivers and amplifiers) to the Commander, the response signal of the main unit may interfere with the learning of the Commander. In such a case, move to a place where the signals will not reach the main unit (e.g. other rooms, etc.).

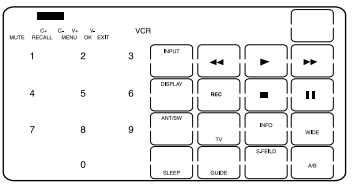
IMPORTANT

Be sure to place the Commander out of the reach of small children or pets. Also set the Hold function to lock the all buttons on the Commander (page 46) when it is not used. Components such as air conditioners, heaters, electric appliances, and electric shutters or curtains receiving an infrared signal can be dangerous if misused.

Changing or erasing the function of a taught key or button

To change the learned function, clear it first and perform learning again.

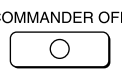
To clear the learned function of a single key or button



1 After Step 2 (page 15), while pressing the LIGHT button, press the key or button you want to erase.

The cleared key flashes together with other learnable keys.

2 Press COMMANDER OFF.

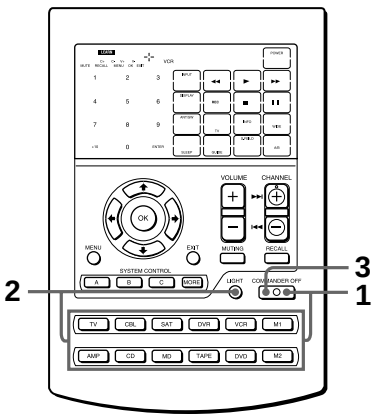


To clear all the learned keys at once

While pressing the LIGHT button, press the Component Select button.

Using Non-Preset Remote Control Operations
— Learning Function (continued)

To clear all signals learned for a specific component



1 While pressing COMMANDER OFF, press the corresponding Component Select button.

COMMANDER OFF ○ + VCR

2 While pressing the LIGHT button, press that Component Select button again.

LIGHT + VCR

The learned contents are cleared. The keys for the component return to their original states before learning.

3 Press COMMANDER OFF.

COMMANDER OFF ○

Controlling the Volume of Visual Components Connected to an Audio System

The Commander is factory preset based on the assumption that you hear the sound of your visual components from your TV speakers, and that you hear sound of your audio components from the loudspeakers connected to your amplifier.

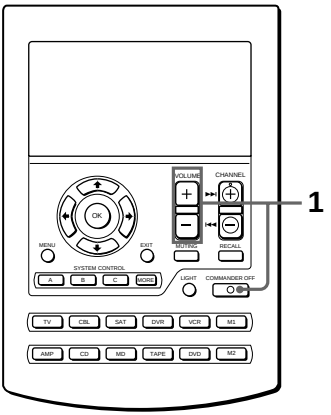
This feature enables you to control the volume of your TV or amplifier without having to select TV or AMP each time you want to control the volume.
For example, to control the volume while using a VCR, you do not need to press the TV button to control the TV volume.

The following table shows the factory setting of which volume would be controlled for each component.

Component Select button	Controls the volume of
TV	TV
VCR	TV
SAT	TV
CBL	TV
DVD	TV
DVR	TV
M1	TV
M2	TV
AMP	amplifier
CD	amplifier
MD	amplifier
TAPE	amplifier

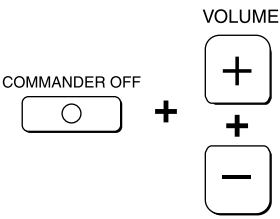
However, if your visual components are connected to an audio system, you probably hear TV or VCR sound from the loudspeakers via your amplifier, not from your TV speakers. In this case, you need to change the factory preset so that you can control the volume of your visual components without first having to switch to the amplifier.

To change the Factory Preset of the Volume Control

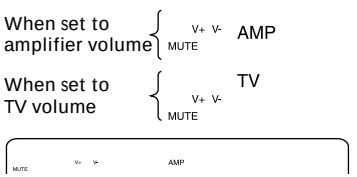


Continued

1 While pressing COMMANDER OFF, press VOLUME + and VOLUME –.



The volume control setting of visual components (TV, VCR, CBL, SAT, and DVD) changes to the displayed component.



Notes

- If you have already programmed the VOLUME or MUTING button of each component any signals by "learning," the procedure above will not change the function of the VOLUME and MUTING buttons.
- If you have programmed volume control signals on VOLUME or MUTING buttons of TV or AMP, you can only use that signal when you select TV or AMP. For other component, the preset volume control signals for TV or AMP (depending on the above setting procedure) will be transmitted. To use the new signals, you need to program each button for each component by the learning procedure (page 15).

Executing a Series of Commands

— System Control Functions

With the System Control function, you can program a series of operating commands, and execute them by pressing just one button.
For example, when you watch a video, a series of operations like the ones below are necessary.

Example:

1 Power on the TV.
2 Power on the video (VCR).
3 Power on the amplifier.
4 Set the input selector of the amplifier to VIDEO 1.
5 Set the input mode of the TV to VIDEO 1.
6 Start video playback.

You can program up to 32 consecutive operation steps to each of the SYSTEM CONTROL buttons (A – C).
If you have set the System Control function for a Component Select button (page 27), the execution of the programmed commands begins when you press the Component Select button for more than 2 seconds.

While executing the programmed commands, at the same time that each remote control signal is transmitted, the corresponding key is displayed.

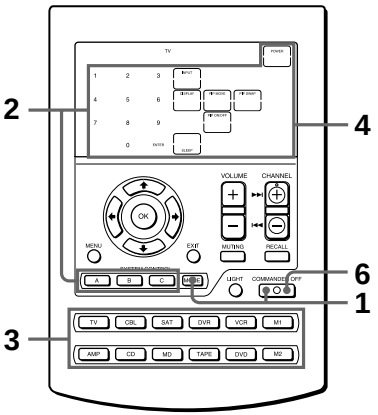
Preset programs for the SYSTEM CONTROL A and C buttons

The SYSTEM CONTROL A and C buttons are preset at the factory to execute each program as follows.

SYSTEM CONTROL A button:
Turn off all the Sony components that could receive the signal from the Commander at the same time.

SYSTEM CONTROL C button:
Turn on all the Sony components that could receive the signal from the Commander at the same time.

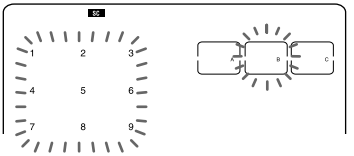
Programming a series of commands to the SYSTEM CONTROL buttons



Example: To program the procedure above to the SYSTEM CONTROL B button

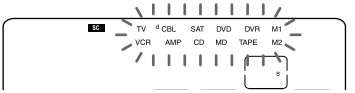
1 While pressing COMMANDER OFF, press the MORE button.

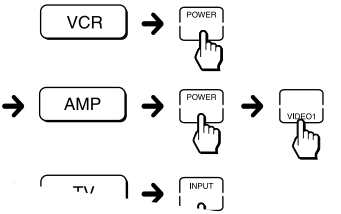
The SYSTEM CONTROL keys (A – C) and number keys (1 – 9) flash while the preset buttons stay lit.



2 Select the system number by pressing the SYSTEM CONTROL button (in this case, SYSTEM CONTROL B) or the number key.

All the component names flash.




VCR
POWER
AMP
POWER
VIDEO1
INPUT

Notes

- If you interrupt the procedure at any point for over two minutes, the setting mode ends and the series of commands will be programmed to that point. In this case, clear the program (page 25) and start again from Step 1 to set the entire program from the beginning. You cannot continue from where you let off.
- If a SYSTEM CONTROL button has already "learned" a remote control signal (page 35), "NG" flashes and you cannot program on this button. Clear the learned contents first (page 36).
- If you change the component code number (page 8) or program a new signal by learning (page 15) on a key or button that has been programmed in the series of commands of the System Control function, the new signal will be transmitted when you press the corresponding SYSTEM CONTROL button.
- During Setting mode, you cannot clear any operation step you have programmed. If you have programmed an incorrect operation by mistake, start again from Step 1.
- If you try to program more than 32 steps, the System Control setting finishes, and the 32 steps you have programmed are registered. If you want to program again, clear the program (page 25) and start again from Step 1.

Tips for programming the System Control functions

The following information helps you to program a consecutive operation steps.

About the interval between operation steps

You can change the interval between operation steps (page 29).

About the order of operation steps

- Some of the components may not accept consecutive remote control signals. For example, a TV generally does not react to next signal right after the Power-on signal. So, a series of commands such as TV Power-on and input select may not work properly. In this case, insert other signals like the example below;

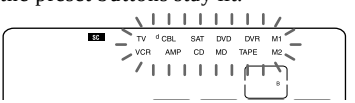
  TV Power-on → VCR Power-on → VCR play back → TV input select

- After the series of input commands is executed, the Commander displays the touch-keys of the component of the final step. By programming an often-used component's command as the final step, you can save the step of pressing a Component Select button when you start operating that component. (In the example on page 24, the touch-keys of VCR are displayed.)

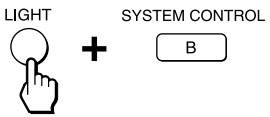
To clear programmed commands

1 While pressing COMMANDER OFF, press the MORE button.

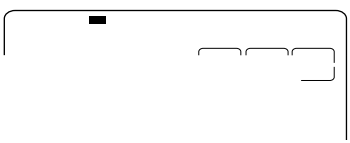
The SYSTEM CONTROL keys (A – C) and number keys (1 – 9) flash while the preset buttons stay lit.



2 While pressing the LIGHT button, press the SYSTEM CONTROL button (A, B or C) or the number key (1 – 9) of which programmed commands you want to erase.



The program for the selected button is erased.



ew program
.OL button,
pages 23 and 24.

To erase the SYSTEM CONTROL A or C button

At the factory, the SYSTEM CONTROL A button is preset with a series of power-off commands for Sony components and the SYSTEM CONTROL C button with a series of power-on commands for Sony components. To erase the programmed commands for each button, follow the steps below.

1 While pressing COMMANDER OFF, press the MORE button.
2 While pressing the LIGHT button, press the SYSTEM CONTROL button (A or C).
The program for the selected button is erased.

To set the SYSTEM CONTROL A or C button back to the factory setting

To reset them to the factory settings, follow the steps below.

1 While pressing COMMANDER OFF, press the MORE button.
2 While pressing the LIGHT button, press the SYSTEM CONTROL button (A or C).

Note

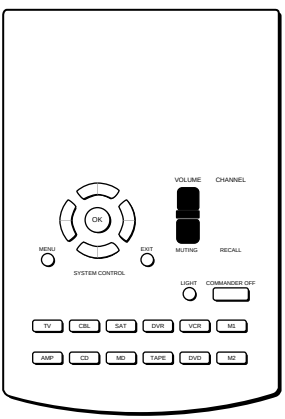
The interval setting (page 29) is not reset to the factory setting, even if you perform these steps.

Programming a series of commands to the Component Select buttons

As with the SYSTEM CONTROL buttons, you can also program a series of operating commands for the Component Select buttons (up to 32 steps).
To execute the commands programmed on a Component Select button by the System Control function, press the button for more than 2 seconds.

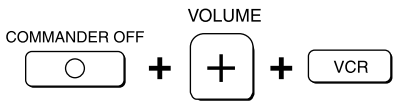
Notes

- The programmed commands are executed when you press a Component Select button for more than 2 seconds. When you press the button for less than 2 seconds, it works as the normal Component Select button, and the corresponding touch-keys are displayed.
- See also “Tips for programming the System Control functions” on page 25 and “Notes on System Control Operations” on page 27.

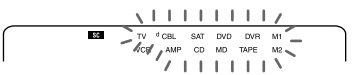


Example: To program the procedure on page 22 for the VCR button

1 While pressing COMMANDER OFF, press VOLUME + and VCR.



The selected component name stays lit, while other component names flash.



If a series of commands is already programmed for that button

The programmed operations are displayed in order. To program a new series of operations, clear the program first (page 25).

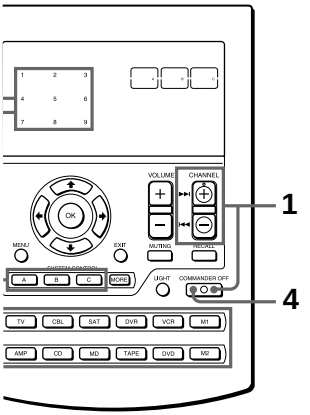
2 Follow Steps 3 to 6 on page 24.

Notes

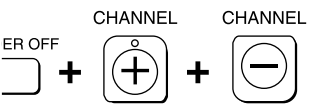
- You can program the System Control functions for a Component Select button on which the Power-On function (page 30) has been programmed. In this case, the Power-On function is overwritten and cannot be used. If you clear the System Control functions for the button, the Power-On function is resumed, and you can use it again.
- You cannot program the System Control functions for a Component Select button for which a signal has been programmed by "learning" (page 32). ("NG" flashes on the display.)
- You can program a signal for a Component Select button by "learning" (page 32) for which the System Control functions have been programmed. In this case, the System Control function is overwritten and cannot be used. If you clear the "learned" signal on the button, the System Control function is resumed and you can use it again.
- You can program the Power-On function (page 30) for a Component Select button for which a System Control function has been programmed, but the Power-On function cannot be used. If you clear the System Control function from the button, you can use the Power-On function.
- If you interrupt the procedure at any point for over two minutes, the setting mode ends and the series of commands will be programmed to that point. In this case, clear the program and start again from Step 1 to set the entire program from the beginning. You can not continue from where you let off.
- If you change the component code number (page 8) or program a new signal by learning (page 15) for a key or button that has been programmed with the series of commands of a System Control function, the new signal will be transmitted when you press the corresponding Component Select button.

ing the interval
en operation steps

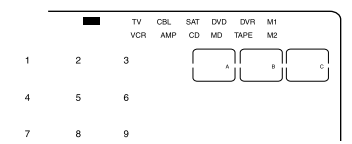
control the interval from 100 –
n units of 100 ms steps.



e pressing COMMANDER
press CHANNEL+ and
NNEL–.



able SYSTEM CONTROL keys
umber keys flash in the display
.

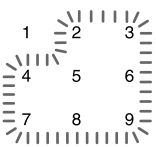


2 Press one of the SYSTEM CONTROL buttons (A, B, or C), number keys or the Component Select button whose interval you want to change.

SYSTEM CONTROL

B

The number of the current setting stays lit and other numbers flash.



3 Press one of the number keys (1 – 9) to select the interval.

1: approx. 100 ms (factory setting)
2: approx. 200 ms
...
9: approx. 900 ms

(ms: 1/1000 second)

The selected number stays lit and other numbers flash.

4 Press COMMANDER OFF.

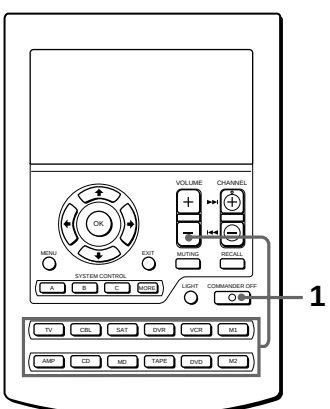
COMMANDER OFF

○

Adding an Extra Function to the Component Select Buttons

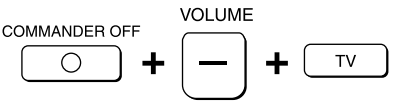
Programming the Power-On command of the selected component (for Sony components only)

When using Sony components, you can program the Power-on signal for each component on a Component Select button. You can select the desired component and turn it on by just pressing that Component Select button.



Example: To program the TV button

1 While pressing COMMANDER OFF, press VOLUME – and the desired Component Select button.



When the Power-on command is programmed, you will hear a beep and “POWER ON” appears on the display. (The display goes off when you release the buttons.)

To clear the Power-on command

Repeat the procedure above.
The following display appears.

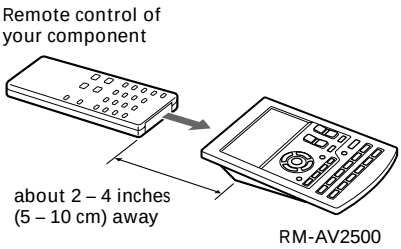
Notes

- If the component code of a non-Sony product has been set for a Component Select button, you cannot program the Power-On function for it.
- Even if you have programmed a signal by “learning” (See “Adding a command that is required when selecting a component” on page 32.) or a System Control function (page 27) for a Component Select button, you can program the Power-On function for that button, but it cannot be used. If you clear a “learned” signal or the System Control function from the button, you can use the Power-On function.
- You can program a signal by “learning” (page 32) or a System Control function (page 27) for a Component Select button for which the Power-On function has been programmed. In this case, the Power-On function is overwritten and cannot be used. If you clear the “learned” signal or the System Control function from the button, the Power-On function is resumed, and you can use it again. If you have programmed both a signal by “learning” and a System Control function for the button, the “learned” signal will have overwritten the System Control function.

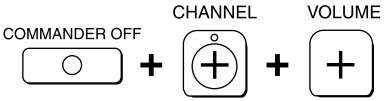
Continued

Example: To program the input select signal of your amplifier to the CD button

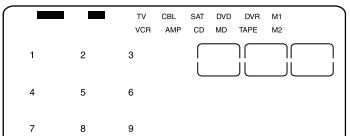
1 Place the RM-AV2500 head to head with your component's remote control.



2 While pressing COMMANDER OFF, press CHANNEL + and VOLUME +.



Learnable SYSTEM CONTROL keys and number keys flash in the display panel.



Note

The name of a Component Select button for which a signal has already been learned stays lit. If you want to program a new signal for that button by learning, clear the learned signal first (page 33).

3 Press the desired Component Select button.

The selected component name stays lit and “LEARN” flashes.

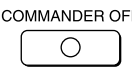
4 Press and hold down the button on the component’s remote control (amplifier in this example) until you hear a beep.
(If you release the button before you hear a beep, the signal may not be learned correctly.)

“LEARN” stops flashing and stays lit.

If “NG” flashes on the display

Learning did not succeed. Try Steps 3 and 4 again.

5 Press COMMANDER OFF.



To clear the learned function of the Component Select button

1 While pressing COMMANDER OFF, press CHANNEL + and VOLUME +.

2 While pressing the LIGHT button, press the Component Select button which you want to clear.

Notes

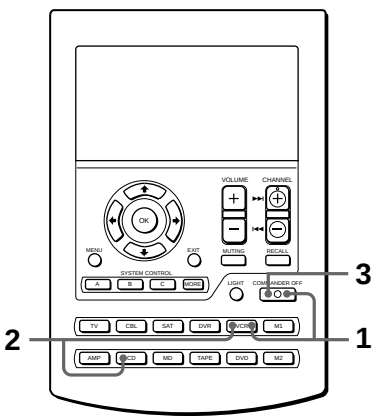
- You can program a signal by “learning” for a Component Select button for which a System Control function (page 27) or the Power-On function (page 30) has been programmed. In this case, the System Control function or the Power-On function is overwritten and cannot be used. If you clear the “learned” signal from the button, the System Control function or the Power-On function is resumed, and you can use it again.
- You cannot program a System Control function (page 27) for a Component Select button for which a signal has been programmed by “learning.”
- You can program the Power-On function for a Component Select button for which a signal has been programmed by “learning,” but then the Power-On function cannot be used. If you clear a “learned” signal from the button, you can use the Power-On function.

Copying the settings of a Component Select button to another button

You can copy the entire settings of a Component Select button to another Component Select button. The settings of the component code (page 8), the channel macro function (page 41), and the learned functions (page 15) are copied to a new button.

Note

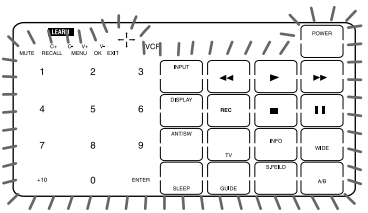
You cannot copy the settings to a Component Select button for which any learning function or channel macro function has been programmed. (“NG” flashes.)



Example: To copy the settings of the CD button to the VCR button

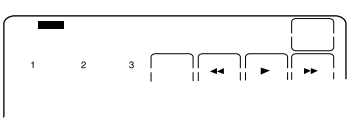
1 While pressing COMMANDER OFF, press VCR.

The keys for that component (VCR) flash.



2 While pressing VCR, press CD.

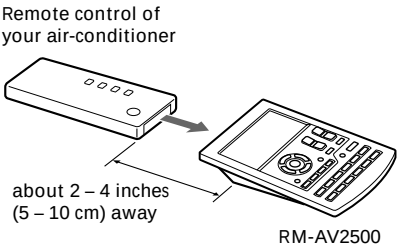
The keys for CD flash.



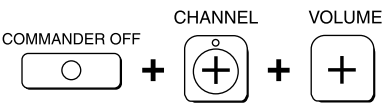
3 Press COMMANDER OFF.

Example: To store the On/Off signal of an air-conditioner to the SYSTEM CONTROL B button

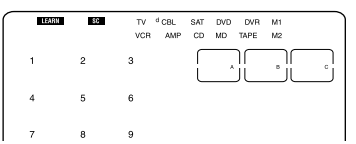
1 Place the Commander head to head with the remote control of the air-conditioner.



2 While pressing COMMANDER OFF, press CHANNEL + and VOLUME +.



Learnable SYSTEM CONTROL keys and number keys flash in the display panel.



If a signal has been learned on that button, the display stays lit. If you want to program on that button, clear the signal first (page 36).

3 Press the SYSTEM CONTROL button you want to teach.

SYSTEM CONTROL

B

"LEARN" flashes and the display for the pressed SYSTEM CONTROL key stays lit.

4 Press and hold down the button of the remote control until you hear a beep.

(If you release the button before you hear a beep, the signal may not be learned correctly.)

AIR CONDITIONER

ON OFF

"LEARN" display stops flashing and stays lit.

If "NG" flashes on the display

Learning did not succeed. Try Steps 3 and 4 again.

5 Press COMMANDER OFF.

COMMANDER OFF

Note

You can program a remote control signal for a SYSTEM CONTROL button by "learning" for which the System Control functions have been programmed. In this case, the System Control functions are overwritten and cannot be used. If you clear the "learned" signal from the button, the System Control function, are restored, and you can use them again.

To clear the learned remote control signal

1. While pressing COMMANDER OFF, press CHANNEL + and VOLUME +.
2. While pressing the LIGHT button, press the SYSTEM CONTROL button (1 – 9, A, B, or C).
3. Press COMMANDER OFF.

The display for that button flashes.

If you want to program a new signal for that button, follow Steps 3 to 5.

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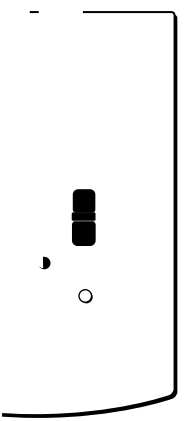
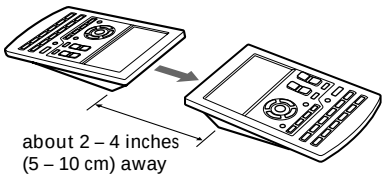


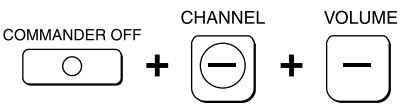
1 Place the RM-AV2500 head to head with another remote commander.

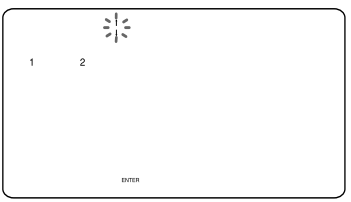
Another remote commander



RM-AV2500

2 While pressing COMMANDER OFF, press CHANNEL – and VOLUME –.





3 Press the ↑ button.

↑: Transfer data
↓: Receive data

4 Press the 1 key.

1: All data of the Commander
2: Data of a Component Select button

5 Confirm that the receiving remote commander is ready for data.

(To set the receiving commander, follow the procedure on page 40.)

6 Press the “ENTER” key.

As the data is transferred, the corresponding component name goes off. If the all data has been successfully transferred, the backlight of the display turns off.

Note

If “NG” appears while sending the data, go back to Step 5 and continue the operation or press COMMANDER OFF to stop the operation.

Note

Be sure that the receiving remote commander is ready to receive data.

To transfer the data of a Component Select button

The data of a Component Select button on this Commander (the settings and learned signals programmed on the keys and buttons) can be transferred to a Component Select button on another Sony RM-AV2500.

1~3 Perform Steps 1 to 3 on page 38.

4 Press the 2 key.

5 Press the Component Select button whose data you want to send.

6 Confirm that the receiving remote commander is ready to accept data.

(To set the receiving commander, follow the procedure on page 40.)

7 Press the “ENTER” key.

When the data has been transferred, “TV” and “↑” go off. If the data have been successfully transferred, the backlight of the display turns off.

Note

If “NG” appears while sending the data, go back to Step 6 and continue the operation or press COMMANDER OFF to stop the operation.

Notes

- The data of the “learned” signal and the System Control function programmed for a Component Select button cannot be transferred.
  You can use the learning function (page 32) to program the “learned” signal and the System Control functions programmed for a Component Select button on another remote commander.
- Be sure that the receiving remote commander is ready to receive data.

Continued

0

To receive the data of a Component Select button from another remote commander

1~2 Perform Steps 1 and 2 on page 40.

3 Press the 2 key.

4 Press the Component Select button to which want to assign the data.

TV

5 Press the ENTER key.

When the data have been received, "TV" and "↓" go off. If the data have been successfully received, the backlight of the display turns off.

Notes

- If the Commander is not ready for receiving the data, press CLEAR key, then OK key to clear the learned signal on all or one of the Component Select buttons.
- If "NG" appears during data transfer, go back to Step 3 and continue the operation or press COMMANDER OFF to stop the operation. If you continue the operation, you have to set the sending remote commander again to send data.

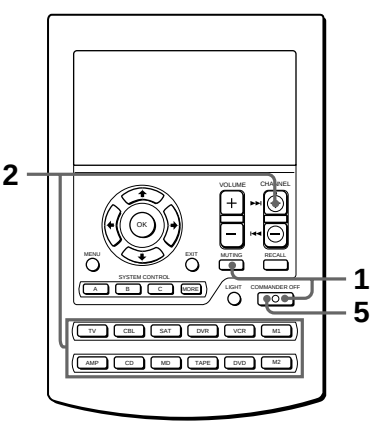
Selecting a Channel with a Single Key Press

— Channel Macro Function

You can program the Channel Macro function for the keys listed below (macro keys).
If you program the operation of entering the 1, 2, 3 and ENTER keys for a macro key, you can select the channel 123 by pressing that single key.

Component	Macro key
TV:	PIP INPUT, PIP MOVE, PIP CH+, PIP STILL, PIP SWAP, PIP CH-
CBL:	◀◀, ►, ▶▶, REC*, ■, ❚❚
SAT:	◀◀, ►, ▶▶, ■, ❚❚

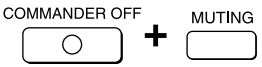
* You can program this function for REC key alone (not on the REC + ► key for a double-key operation).



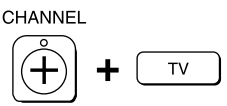
Selecting a Channel with a Single Key Press (continued)

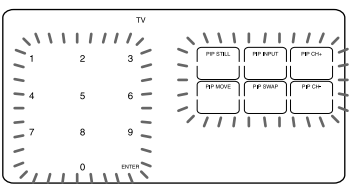
Example: To program TV channel 123 for the PIP INPUT key

1 While pressing COMMANDER OFF, press MUTING.



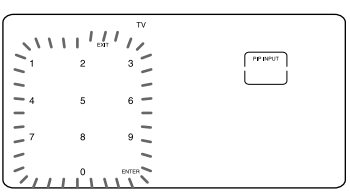
2 While pressing CHANNEL +, press the Component Select button (TV).





3 Press the macro key (in this case, PIP INPUT).

The selected macro key lights. The number keys and “ENTER” flash.



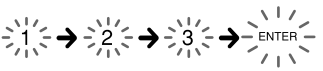
4 Press the keys for the operation in order (1→ 2 → 3 → ENTER).

Note

If you enter more than four keys, the last four keys are programmed for the macro key.

5 Press the EXIT button to confirm the Channel Macro.

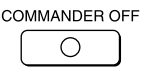
“1,” “2,” “3,” and “ENTER” appear twice.



Note

If you enter more than four keys, the last four keys are programmed for the macro key.

6 Press COMMANDER OFF.



Notes

- You cannot program the Channel Macro function for a macro key that has “learned” a signal. Try again with another macro key, or clear the “learned” signal (page 19) from the button and program the Channel Macro function on it.
- If you change the component code for a key that has been programmed with the Channel Macro function, the new signal is transmitted when you press the corresponding macro key.

To clear the Channel Macro function

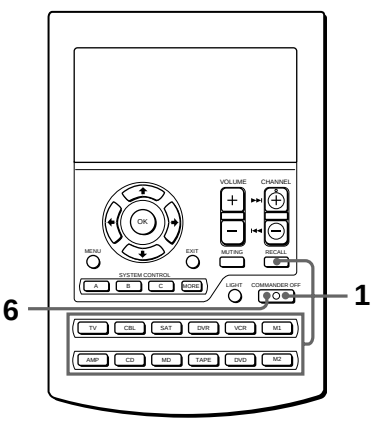
1 While pressing COMMANDER OFF, press MUTING.
2 While pressing CHANNEL +, press the Component Select button (TV).
3 While pressing the LIGHT button, press the macro key.

Note

The procedure above can clear only the Channel Macro function from the key. It does not clear the learned signals from that key.

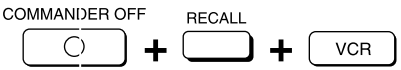
Creating an Alias Component key (ALIAS)

The Alias Component key to be created in this section is a Component key that refers to the setting contents of another Component key and work the same as the reference key. If you create an Alias Component key, function keys (Alias function keys) that have the same function as the function keys in the reference component are also created. Using this Alias Component function, you can assign the function keys of various AV components (alias keys) to one Component display. A Component key that has this kind of function is called a Multi Component key.
The M1 button is a preset multi-component button for TV and VCR. And the M2 button is for TV and DVD.

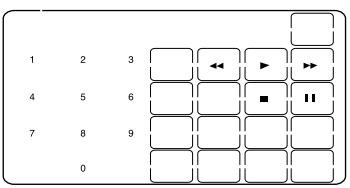


Creating an Alias Component key (ALIAS) (continued)

1 While pressing COMMANDER OFF, press RECALL and the component (button) for which you want to create alias key.



The keys for the selected component flash.

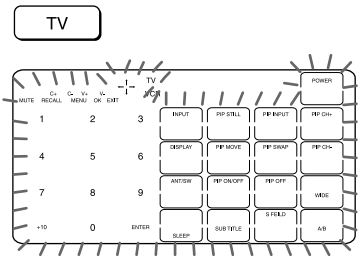


2 Press the key you want to set.

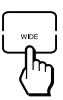
Note on the flashing display

The keys or buttons that are already preset for the component flash twice while those that are not preset flash once.

3 Press the component button to be referred to.



4 Press the key you want to be referred to.



Note

You cannot select an already set alias key.

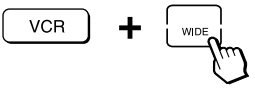
5 Repeat Steps 2 and 4 to create other alias keys.

6 Press the COMMANDER OFF button.

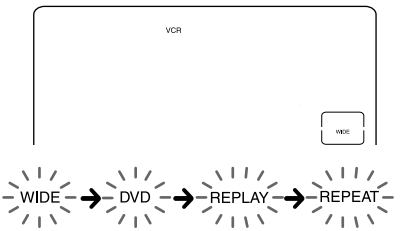
To change the function display of a key

When you program a signal for a key, you can select the most suitable function display among all the displays the key has, and set it to the key.

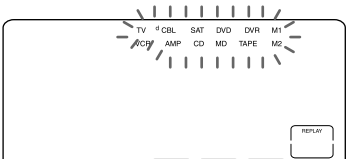
1 After Step 1 (page 44), while pressing the Component Select button (VCR), press the key you want to teach repeatedly.



Each time the key is pressed, the display is changed in order.



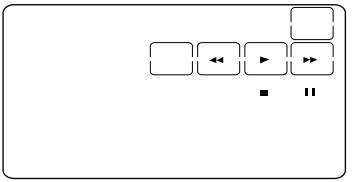
2 When the desired display appears, release the Component Select button.



3 Then follow Steps 3 to 6 (page 44).

Notes

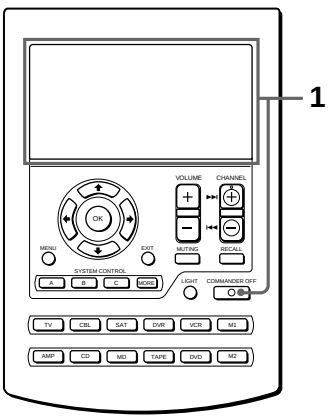
- If you do not change the display of a key, the default display is used.
- You cannot change the display of the keys that are not framed with ▭ (the number keys 0 to 9, +10 and ENTER).



Locking the Controls

— Hold Function

To prevent accidental operation, you can lock all the buttons with the Hold function.



1 While pressing COMMANDER OFF, press the display panel.

"OFF" is displayed.

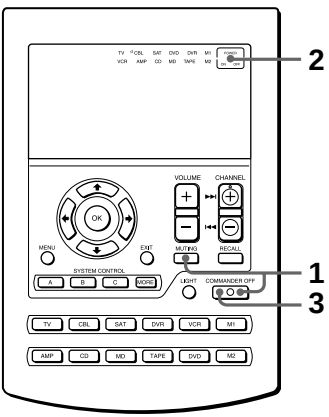
To unlock the control

Repeat the procedure above.
"OFF" disappears from the display.

Protecting your settings

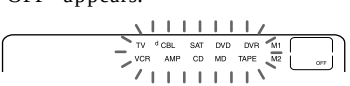
— Preset Lock Function

You can lock the Commander so that you can not change, add, or clear any of your component code settings (page 8).



1 While pressing COMMANDER OFF, press MUTING.

All the component names flash and "OFF" appears.



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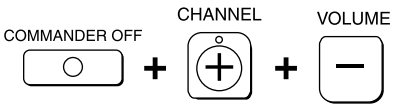
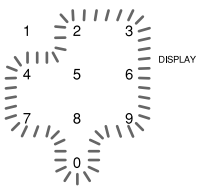
1 While pressing COMMANDER OFF, press CHANNEL + and VOLUME –.



The number which shows the current Power-Off time of the Commander stays lit, and other numbers flash.

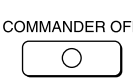


2 Press one of the 1 – 9 keys to select the Auto Power-Off time, or press the 0 key to disable the Auto Power-off function.

For example, to set the Auto Power-Off time to 20 minutes, press the 2 key.

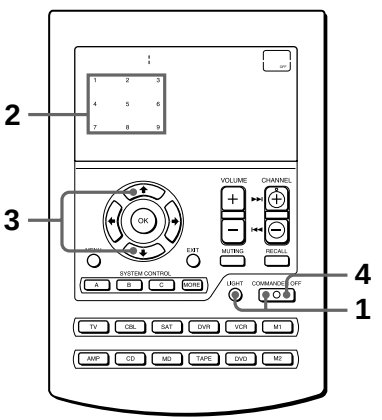
"2" stops flashing and stays lit.

3 Press COMMANDER OFF.



Adjusting the Backlight of the Display Window

The Commander is preset at the factory to bright backlight, and to switch off the backlight automatically if you do not operate for more than 10 seconds. To change this setting, perform the following procedure. You can adjust the backlight Automatic-Off time (from 10 seconds to 90 seconds in the units of 10 seconds) and the brightness (bright or dim).



4 Press the POWER key.

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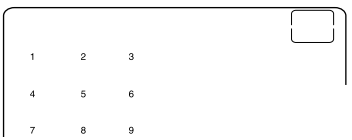
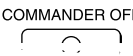
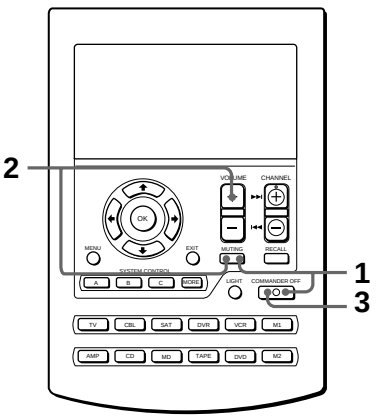


5 Press COMM



Setting the Key-Touch Beep

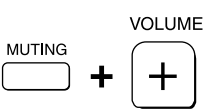
You can turn on or off the key-touch confirmation beep.



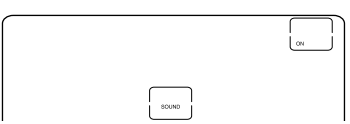
To turn on the key-touch beep

1 While pressing COMMANDER OFF, press MUTING.

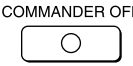
2 While pressing MUTING, press VOLUME +.



"ON" appears on the display.

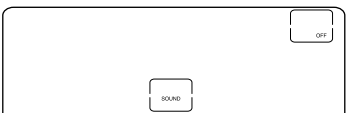


3 Press COMMANDER OFF.



To turn off the key-touch beep

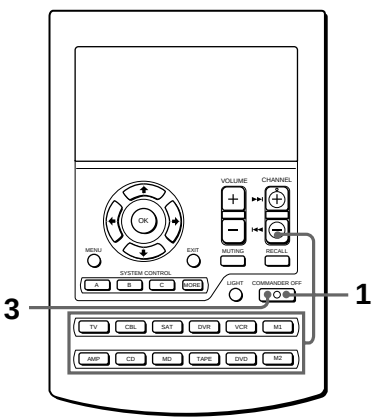
In Step 2, while pressing MUTING, press VOLUME –.
"OFF" appears on the display.



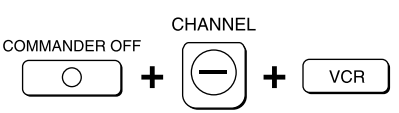
Adjusting the beam interval to avoid key misoperation

You can control the beam interval of the commander. This prevents an unexpected action caused by mistouching a commander key. The factory setting is 0 seconds.

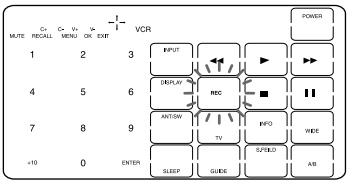
To adjust the keys of each Component button



1 While pressing COMMANDER OFF, press CHANNEL – and the component button.



The keys of the selected component appear as set at the factory.

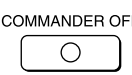


0 second: Stays lit
1 second: Flashes
2 seconds: Flashes slowly

2 Press the key you want to adjust.

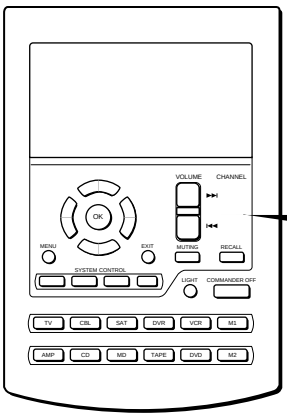
The beaming time is changed with each press of the key (from 0 to 2 seconds).

3 Press the COMMANDER OFF button.



Continued

Adjusting the beam interval to avoid key misoperation (continued)



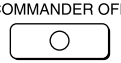
2 Press the key or button you want to adjust.

SYSTEM CONTROL

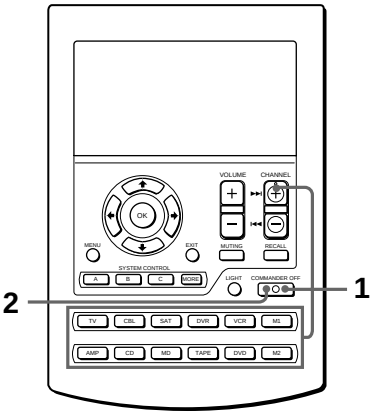
The beaming time is changed with each press of the key (from 0 to 2 seconds).
0 second: Stays lit
1 second: Flashes
2 seconds: Flashes slowly

3 Press the
button.

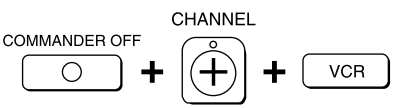
COMMANDER OFF



To adjust the component buttons



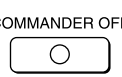
1 While pressing COMMANDER OFF, press CHANNEL + and the component button.



The keys of the selected component appear as set at the factory.

0 second: Stays lit
1 second: Flashes
2 seconds: Flashes slowly

2 Press the COMMANDER OFF button.



Precautions

- Do not drop the unit or give a shock to the unit, or it may cause a malfunction.
- Do not leave the unit in a location hear heat sources, or in a place subject to direct sunlight, excessive dust or sand, moisture, rain or mechanical shock.
- Do not put foreign objects into the unit. Should any liquid or solid object fall into the unit, have it checked by qualified personnel before operating the unit any further.
- Do not expose the remote control detectors of your components to direct sunlight or other strong illumination. Too much light there can interfere with remote control operations.
- Be sure to place the Commander out of the reach of small children or pets. Components such as air conditioners, heaters, electric appliances, and electric shutters or curtains receiving an infrared signal can be dangerous if misused.

Maintenance

Clean the surface with a soft cloth sightly moistened with water or a mild detergent solution. Do not use any type of solvent such as alcohol, benzine or thinner as they may damage the finish of the surface.

Specifications

Operating distance
Approx. 32.8 ft. (10 meters) (varies depending on components of different manufacturers)

Power requirements
Remote control and backlight: Four size AA (R6) batteries

Battery life
Approx. 5 months (varies depending on frequency of use)

Dimensions
Approx. $4\ ^{1}/_{2} \times 7 \times 1\ ^{1}/_{2}$ in. (w × h × d)
(112 × 177 × 38 mm)

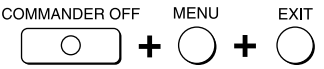
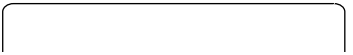
Mass
8.64 oz. (245 g) (not including batteries)

Design and specifications are subject to change without notice.

CE The CE mark on the unit is valid only for products marketed in the European Union.

Troubleshooting

If you have problems setting up or using the Remote Commander, first check the batteries (page 6), then check the items below.

Symptom	Remedy
You cannot operate the components.	• Go closer to the component. The maximum operating distance is approximately 32.8 ft. (10 m). • Check that you are aiming the Commander directly at the compoent, and that there are no obstructions between the Commander and the component. • Turn on the components first, if necessary. • Check that the component has infrared remote capability. For example, if your component did not come with a remote commander, it probably is not capable of being controlled by a remote commander. • You have assigned a different component to the Component Select button. Check the component assigned to that button and the component code. • If you do not use the commander for a long time, LCD panel response may become erratic. In this case, follow the procedure below: **1** While pressing COMMANDER OFF, press MENU and EXIT.  A bullet mark will appear in the bottom left of the LCD panel. **2** Press the next target that appears in the top right of the LCD panel.  **3** Press the square that appears in the center of the LCD panel. A beep sounds to confirm the setting.

Symptom	Remedy
You cannot operate the components even after setting the component code numbers.	• Set the component code correctly. If the code that is listed first for your component does not work, try all the codes for your component in the order in which they are listed in the supplied "Component Code Numbers." • Some features may not be preset. If some or all of the keys do not function correctly even after you have set the component codes, then use the learning function to program the remote control signals for the component (page 15). • The component may be operated with a code number that is not listed in the "Component Code Numbers." See "Finding a component code with the Search function" (page 11) and try setting a code number again.
You cannot control the volume.	• If your visual components are connected to an audio system, make sure you have set up the Commander as described in "Controlling the Volume of Visual Components Connected to an Audio System" (page 21). • You have assigned another component to the TV or AMP button (page 32). In this case, the volume cannot be controlled when you select a component other than TV or AMP.
The Commander fails to learn the remote control signals.	• When you teach signals of an interactive signal exchange system remote control unit (supplied with some of Sony's receivers and amplifiers) to the Commander, the response signal of the main unit may interfere with the learning of the Commander. In such a case, move to a place where the signals will not reach the main unit (e.g. other rooms, etc.).
You cannot operate a component even after you programmed the remote control signals with the "learning" function.	• Make sure that the Remote Commander has learned the correct signals. If not, see "For accurate learning" (page 19) and try the learning procedure again (page 15).

Symptom	Remedy
You hear beeps (“pip, pip”) and “NG” flashes.	• The Preset Lock function is on. Unlock the Preset Lock function (page 46), and try the component code setting or the learning function. • Signals have been programmed for that Component Select or SYSTEM CONTROL button using the learning function. Clear the learned signals (page 25, 43) and try programming the System Control function again. • Signal has been programmed for that key using the learning function. Clear the signal(s) (pages 19 and 20) and try programming the function or the display for the same key again, or try with another Component Select button. • Signals have been programmed for that macro key using the learning function. Clear the learned signals (page 19) and try programming the Channel Macro function for the same key again, or try with another macro key. • There are some keys, on which signals have been programmed, on the display for the Component Select button of the Commander when the commander receives the data from another Commander. Clear the signals (pages 20, 21 and “Notes” on page 43) and try receiving the data again.
You hear beeps (“pip, pip, pip, pip, pip”) and “NG” flashes.	• Learning has not succeeded. See “For accurate learning” (page 19) and try the learning procedure again (page 15). • The component codes cannot be set. See the supplied “Component Code Numbers” and try setting the component codes again (page 8). • The data have not been transferred. See “Transferring data” (page 37) and try transferring the data again. • The data have not been received. See “Receiving the data” (page 40) and try receiving the data again.
“NG” appears during learning.	• Clear infrequently used learned keys (page 19), then carry out learning operations.

Continued

Symptom	Remedy
A system control program does not function correctly.	• Make sure that you have programmed the commands in the correct order (page 22). • Try changing the orientation of the Commander. If that does not help, try placing the components as close to each other as possible. • Check the status of the components and make sure that you have set the components properly to receive commands (page 27). • The component codes are changed or a new signals have been learned for a key or button that has been programmed with a series of commands. In this case, the new signals are transmitted when the series of commands is executed. • The interval may be too short. See "Changing the interval between operation steps" (page 29) and set a longer interval.
The power of the Commander turns off by itself.	• This Commander is preset at the factory to switch the power off automatically after 10 minutes if left unused. (Auto Power-Off, page 47) You can change the power-off time from 10 to 90 minutes, or set the Commander not to power off automatically.
The power of the Commander does not turn on when you press a button.	• The Hold function is on ("OFF" appears on the display). Unlock the Hold function (page 46).
Your Commander does not work as expected after data transfer.	• Data transfer to / from a single button cannot transfer System Control functions that are learned by Component Select buttons. Either set up the learned Commander from the start, or perform whole data transfer.

For the customers in the U.S.A.

Customer Support Information

After you have read through this manual, if you still cannot get the Remote Commander to work properly, call the Sony Customer Support Helpline at 1-800-822-2217.

Table of Preset Functions

Note
There may be some components or functions that cannot be operated with this Commander.

TV

KEY DISPLAY	FUNCTION
POWER	To turn the power on/off
1 – 9, 0, ENTER	To change the channel For example, to change to channel 5, press 0 and 5 (or, press 5 and ENTER)
INPUT	To change the input mode
DISPLAY	To display the current channel on TV
SLEEP	To operate SLEEP function on the TV (works only for a TV with SLEEP function)
WIDE	To switch to WIDE
MENU	To call up the MENU display
↑	To move the cursor upward
↓	To move the cursor downward
→	To move the cursor to the right
←	To move the cursor to the left
OK	To enter the selection of the MENU display
PIP ON/OFF	To turn on/off the “window” picture
PIP OFF	To turn off the “window” picture
PIP CH+/–	To change the TV channel in the “window” picture
PIP INPUT	To change the input mode of the “window” picture
PIP MOVE	To move the location of the “window” picture
PIP STILL	To freeze the “window” picture
PIP SWAP	To swap the “window” picture
CHANNEL +/–	Channel up: +
	Channel down: –
RECALL	To operate JUMP, FLASHBACK or CHANNEL RETURN function on the TV depending on the setting of the TV’s manufacturer
VOLUME +/–	Volume up: +
	Volume down: –
MUTING	To mute the volume on the TV. Press again to turn muting off.
ANT/SW	To switch the multiplex antenna input
SUB TITLE	To display the CRT screen subtitle
EXIT	To exit the mode

Continued

VCR

KEY DISPLAY	FUNCTION
POWER	To turn the power on / off
1 – 9, 0, ENTER	To change the channel For example, to change to channel 5, press 0 and 5 (or, press 5 and ENTER)
INPUT	To change the input mode
DISPLAY	To activate the on-screen display
ANT / SW	To switch the antenna output
MENU	To call the MENU display
↑	To move the cursor upward
↓	To move the cursor downward
→	To move the cursor to the right
←	To move the cursor to the left
OK	To enter the selection of the MENU display
◀◀	To rewind
►	To play
▶▶	To fast-forward
REC*	To record
■	To stop
❚❚	To pause
CHANNEL + / –	Channel up: + Channel down: –
A / B	To select the deck
EXIT	To exit the mode

* To avoid accidental recording, the REC key does not work unless pressed for more than 1 second (factory setting). To change this setting, see "Adjusting the beam interval to avoid key misoperation" on page 51.

DVD

KEY DISPLAY	FUNCTION
POWER	To turn the power on / off
1 – 9, 0	Number keys: To set items selected from the screen
+10	To select numbers 10 and above
ENTER	To enter a setting or to set items selected from the screen
AUDIO	To change the sound
DISPLAY	To show the current play status on the screen
CLEAR	To clear the selected characters from the screen
RETURN	To return to the last previous screen
TITLE	To display the title menu
SUB TITLE	To switch the subtitle
MENU	To display the DVD menu
↑	To move the cursor upward
↓	To move the cursor downward
→	To move the cursor to the right
←	To move the cursor to the left
OK	To execute items selected from the screen
◀◀	To rewind
►	To play
▶▶	To fast-forward
■	To stop
❚❚	To pause
REC*	To record
MODE	To change the playback mode

KEY DISPLAY	FUNCTION
▶▶| (CHANNEL +)	To proceed to the next location or song Channel up
|◀◀ (CHANNEL –)	To proceed to the previous location or song Channel down
A / B	To decide the distance between A and B To select the deck

* To avoid accidental recording, the REC key does not work unless pressed for more than 1 second (factory setting). To change this setting, see "Adjusting the beam interval to avoid key misoperation" on page 51.

CBL (Analog Cable box)

KEY DISPLAY	FUNCTION
POWER	To turn the power on / off
1 – 9, 0, ENTER	To change the channel For example, to change to channel 5, press 0 and 5 (or , press 5 and ENTER)
CHANNEL + / –	Channel up : + Channel down : –
RECALL	To operate JUMP, FLASHBACK or CHANNEL RETURN function

Continued

CBL (Digital Cable box)

KEY DISPLAY	FUNCTION
POWER	To turn the power on / off
1 – 9, 0, ENTER	To change the channel For example, to change to channel 5, press 0 and 5 (or, press 5 and ENTER)
INPUT	To switch the output of the SAT receiver to the TV (When connecting a TV cable or antenna to the receiver, the output switches between a TV and SAT program)
DISPLAY	To turn on the display
FAVORITE	To use the "FAVORITE" function
EPG	To call up the title bar and toggle the title bar on / off in CABLE mode
GUIDE	To call up the title bar and toggle the title bar on / off in CABLE mode
MENU	To call up the MENU display
↑	To move the cursor upward
↓	To move the cursor downward
→	To move the cursor to the right
←	To move the cursor to the left
OK	To bring up the Station Index when a program guide is not displayed To select the channel that is highlighted
EXIT	To exit the setting menu
CHANNEL + / –	Channel up: +
	Channel down: –
RECALL	To turn on the display of a shortcut menu

KEY DISPLAY	FUNCTION
◀◀*1	To rewind
▶*1	To play
▶▶*1	To fast-forward
REC*1 *2	To record
■*1	To stop
❚❚*1	To pause

*1 The operation of the built-in DVR or the video on demand

*2 To avoid accidental recording, the REC key does not work unless pressed for more than 1 second (factory setting). To change this setting, see "Adjusting the beam interval to avoid key misoperation" on page 51.

SAT

KEY DISPLAY	FUNCTION
POWER	To turn the power on/off
1 – 9, 0, ENTER	To change the channel For example, to change to channel 5, press 0 and 5 (or, press 5 and ENTER)
INPUT	To switch the output of the SAT receiver to the TV (When you connect a TV cable or anntenna to the receiver, the output switches between a TV and SAT program)
DISPLAY	To turn on the display
RECALL	To tune to the last tuned station
FAVORITE	To use the “FAVORITE” function
S.INDEX	To bring up the Station Index
GUIDE	To bring up Master Guide
EXIT	To exit the mode
MENU	To call up the MENU display
↑	To move the cursor upward
↓	To move the cursor downward
→	To move the cursor to the right
←	To move the cursor to the left
OK	To bring up the Station Index when a program guide is not displayed To select the channel that is highlighted
CHANNEL +/–	Channel up : +
	Channel down : –
◀◀*1	To rewind
▶*1	To play
▶▶*1	To fast-forward
REC*1 *2	To record
■*1	To stop
❚❚*1	To pause

KEY DISPLAY	FUNCTION
+10	Decimal point for channel number
ANT/SW	To switch the antenna input in order
REPLAY	To replay the built-in DVR
INFO	To display program information

*1 The operation of the built-in DVR or the video on demand

*2 To avoid accidental recording, the REC key does not work unless pressed for more than 1 second (factory setting). To change this setting, see ”Adjusting the beam interval to avoid key misoperation” on page 51.

Continued

AMP

KEY DISPLAY	FUNCTION
POWER	To turn the power on / off
VIDEO 1	To select the input source: VIDEO 1
VIDEO 2	To select the input source: VIDEO 2
VIDEO 3	To select the input source: VIDEO 3
AUX	To select the input source: AUX
DVD	To select the input source: DVD
TV	To select the input source: TV
CD	To select the input source: CD
MD / DAT	To select the input source: MD
TUNER	To select the input source: TUNER
TAPE	To select the input source: TAPE
PHONO	To select the input source: PHONO
5.1 INPUT	To change the multi-channel of 5.1ch and above
MENU	To call up the MENU display, or return to the previous MENU
↑	To move the cursor upward
↓	To move the cursor downward
→	To move the cursor to the right
←	To move the cursor to the left
OK	To enter the selection of the MENU display

KEY DISPLAY	FUNCTION
RECALL	To shift band or preset select
EXIT	To return to the basic MENU
CHANNEL +/–	Presetting or tuning frequency to a higher: +
	Presetting or tuning frequency to a lower: –
VOLUME +/–	Volume up: +
	Volume down: –
MUTING	To mute the volume on the AMP Press again to turn muting off
S.FIELD	To turn on / off the sound field
MODE	To select a sound field mode
T.TONE	To output a test tone
CENTER ∧	To adjust the center speaker level: +
CENTER ∨	To adjust the center speaker level: –
REAR ∧	To adjust the rear speaker level: +
REAR ∨	To adjust the rear speaker level: –
SUB WOOFER ∧	To adjust the subwoofer level: +
SUB WOOFER ∨	To adjust the subwoofer level: –
FRONT BAL ◇	To control the front speaker balance
REAR BAL ◇	To control the rear speaker balance
EFFECT ◇	To control the effect

DVR (Digital video recorder)

KEY DISPLAY	FUNCTION
POWER	To turn the power on / off
1 – 9, 0, ENTER	To change the channel For example, to change to channel 5, press 0 and 5 (or, press 5 and ENTER)
INPUT	To switch the output of the SAT receiver to the TV (When connecting a TV cable or antenna to the receiver, the output switches between a TV and SAT program)
DISPLAY	To turn on the display
CLEAR	To clear the setting
GUIDE	To bring up Master Guide
THUMBS +*1	To select the desired recorded program (It is necessary to have recorded the desired program)
THUMBS –*1	To select the desired recorded program (It is necessary to have recorded the desired program)
◀◀	To rewind
▶	To play
▶▶	To fast-forward
REC*2	To record
■	To stop
❚❚	To pause
MENU	To call up the MENU display
↑	To move the cursor upward
↓	To move the cursor downward
→	To move the cursor to the right
←	To move the cursor to the left

KEY DISPLAY	FUNCTION
OK	To bring up the Station Index when a program guide is not displayed To select the channel that is highlighted
EXIT	To exit the setting menu
CHANNEL +/–	Channel up: + Channel down: –
EPG*1	To access to all aspects of the service
REPLAY*1	To replay Or to go into REC / REVIEW mode during play (After about 5-second rewind, replay begins)
Live TV*1	To bring up Master Guide
LIST*1	To call up the title of the recorded program

*1 This key corresponds to Tivo service or the replay service. Refer to its instruction manual for details.

*2 To avoid accidental recording, the REC key does not work unless pressed for more than 1 second (factory setting). To change this setting, see "Adjusting the beam interval to avoid key misoperation" on page 51.

Continued

CD

KEY DISPLAY	FUNCTION
POWER	To turn the power on / off
1 – 9, 0	To select the track number (0 selects track 10) To select track numbers above 10, see the descriptions on the +10 button below.
+10	To select numbers 10 and above
ENTER	To enter the setting
RECALL	To select the next disc
REPEAT	To select repeat play mode
CONTINUE	To select continuous play mode
SHUFFLE	To play in random order
PROGRAM	To use for program play
CLEAR	To clear the setting
◀◀	To rewind
►	To play
▶▶	To fast-forward
■	To stop
❚❚	To pause
▶▶I	To select the next track
I◀◀	To select the previous track

MD

KEY DISPLAY	FUNCTION
POWER	To turn the power on / off
1 – 9, 0	To select the track number (0 selects track 10) To select track numbers above 10, see the descriptions on the +10 button below.
+10	To select numbers 10 and above
ENTER	To enter the setting.
RECALL	To select the next disc
DISPLAY	To switch the display mode
CONTINUE	To select continuous play mode
SHUFFLE	To play in random order
PROGRAM	To use for program play
CLEAR	To clear the setting
◀◀	To rewind
►	To play
▶▶	To fast-forward
REC*	To record
■	To stop
❚❚	To pause
▶▶I	To select the next track
I◀◀	To select the previous track
MODE	To toggle the recording mode
A / B	To select the deck

* To avoid accidental recording, the REC key does not work unless pressed for more than 1 second (factory setting). To change this setting, see "Adjusting the beam interval to avoid key misoperation" on page 51.

DAT

KEY DISPLAY	FUNCTION
POWER	To turn the power on / off
1 – 9, 0	To select a program number
DISPLAY	To turn on / off the display mode
◀◀	To rewind
▶	To play
▶▶	To fast-forward
REC*	To record
■	To stop
❚❚	To pause
▶▶|	To proceed to the next song
|◀◀	To proceed to the previous song

* To avoid accidental recording, the REC key does not work unless pressed for more than 1 second (factory setting). To change this setting, see "Adjusting the beam interval to avoid key misoperation" on page 51.

TAPE

KEY DISPLAY	FUNCTION
◀◀*1	To rewind
▶*1	To play
▶▶*1	To fast-forward
REC*1 *3	To record
■*1	To stop
❚❚*1	To pause
A / B	To select the tape deck : Deck A or B (dual cassette deck only)
CHANNEL +*1	To reverse
←*2	To rewind
↑*2	To play
→*2	To fast-forward
MENU*2 *3	To record
↓*2	To stop
EXIT*2	To pause
CHANNEL –*2	To reverse

*1 Tape operation buttons. For dual cassette decks, operation buttons for Deck A (for Sony-brand dual cassette deck, buttons for Deck B).

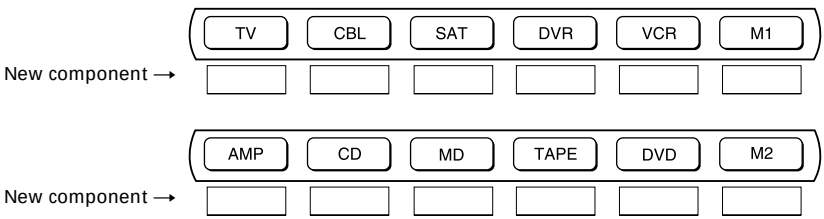
*2 Operation buttons for Deck B (for Sony-brand dual cassette deck, buttons for Deck A).

*3 To avoid accidental recording, the REC key does not work unless pressed for more than 1 second (factory setting). To change this setting, see "Adjusting the beam interval to avoid key misoperation" on page 51.

LCD Touch-Key Display Table

Memo for component select buttons

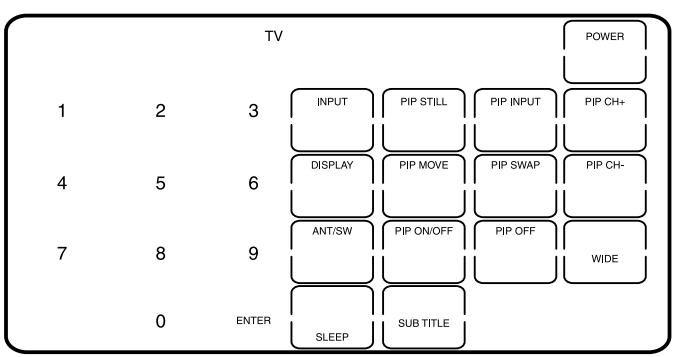
If you assign other components on Component Select buttons, use the space below as your memo.



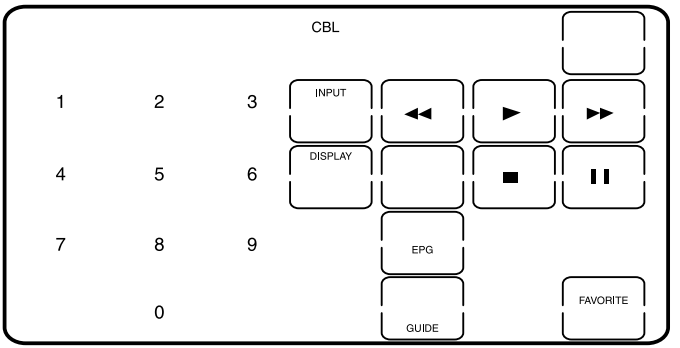
Keys for each component

The followings are the tables of the keys available for each component, which are useful if you use them as a memorandum of learned keys.

TV



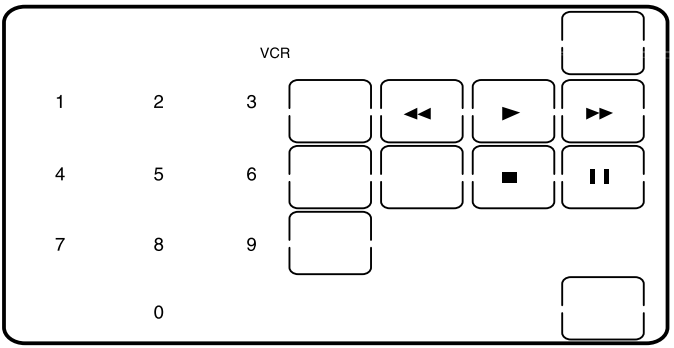
CBL



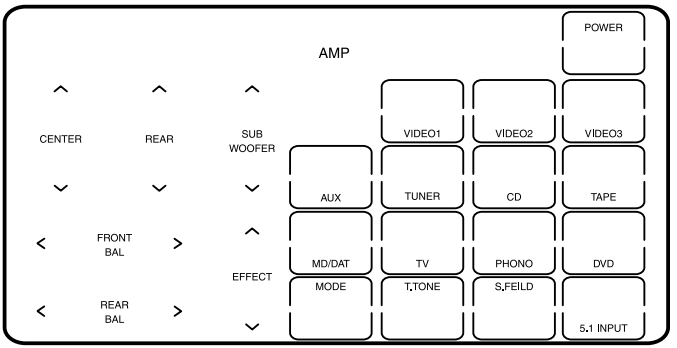
SAT

DVR

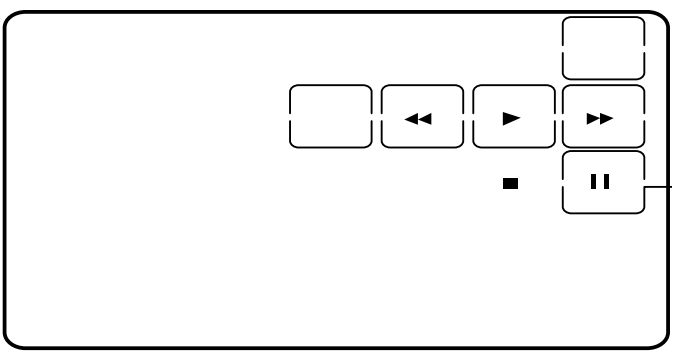
VCR



AMP

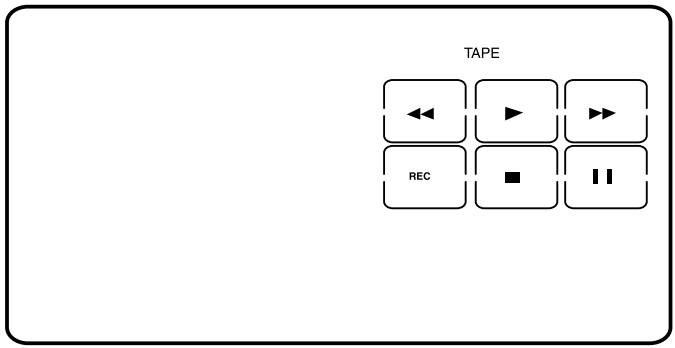

AMP
POWER
CENTER
REAR
SUB WOOFER
VIDEO1
VIDEO2
VIDEO3
AUX
TUNER
CD
TAPE
FRONT BAL
MD/DAT
TV
PHONO
DVD
EFFECT
MODE
T.TONE
S.FEILD
REAR BAL
5.1 INPUT

CD

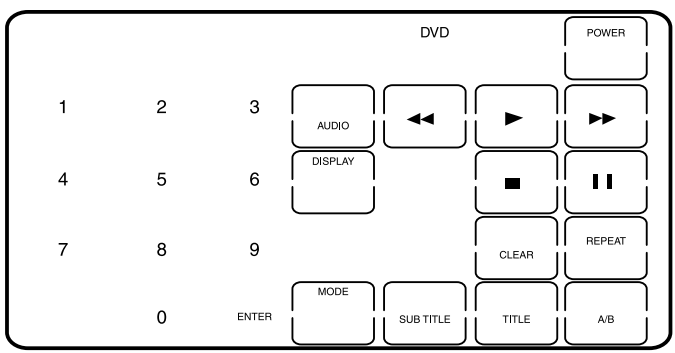


MD

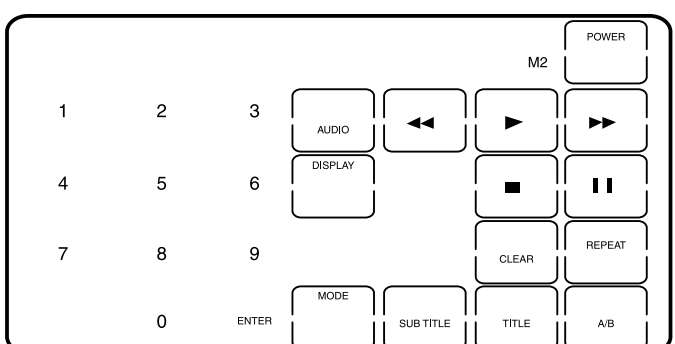
TAPE


TAPE
REC

DVD

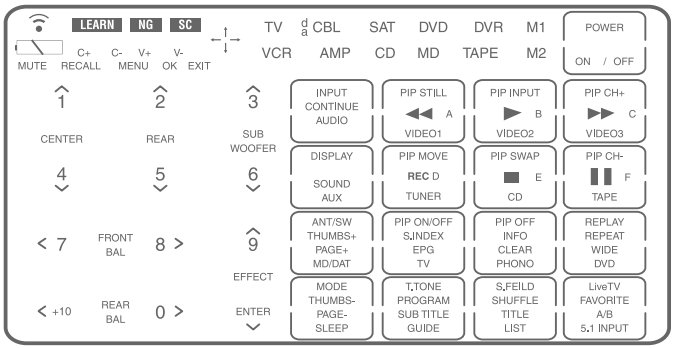

DVD
POWER
1
2
3
AUDIO
4
5
6
DISPLAY
7
8
9
CLEAR
REPEAT
0
ENTER
MODE
SUB TITLE
TITLE
A/B

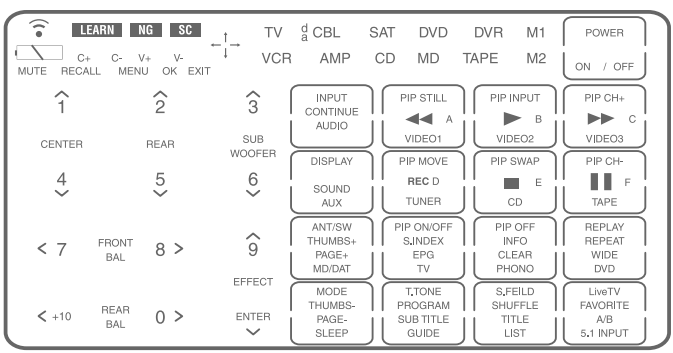
M2

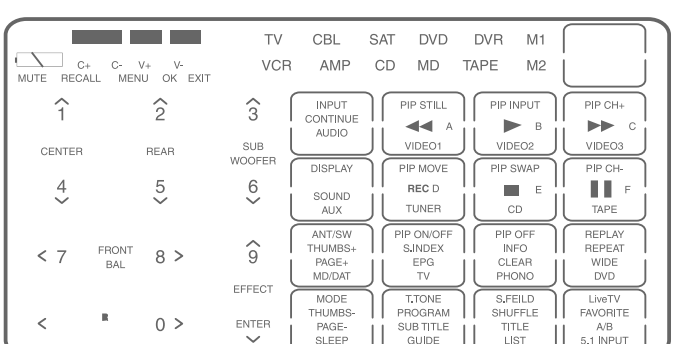

M2
POWER
1
2
3
AUDIO
4
5
6
DISPLAY
7
8
9
CLEAR
REPEAT
0
ENTER
MODE
SUB TITLE
TITLE
A/B

Full display

You can use the following tables as a memorandum for the optional button or for any component.







Quick Reference of Operations

To	Press	For details, see
Set a component code	COMMANDER OFF + MUTING	page 8
Program to the keys or buttons on a component (learning function)	COMMANDER OFF + Component Select	page 15
Change the volume control setting	COMMANDER OFF + VOLUME+ + VOLUME–	page 22
Assign the System Control function to the SYSTEM CONTROL buttons	COMMANDER OFF + MORE	page 23
Program the Power-On command to the Component Select buttons	COMMANDER OFF + VOLUME– + Component Select	page 31
Program a command to the SYSTEM CONTROL buttons or Component Select buttons	COMMANDER OFF + CHANNEL+ + VOLUME+	page 32, 36
Copy the settings of one Component Select button to another	COMMANDER OFF + (copy to) Component Select ↓ (copy to) Component Select + (copy from) Component Select	page 34
Program a System Control functions for Component Select buttons	COMMANDER OFF + VOLUME+ + Component Select	page 28
Set the interval of the System Control functions	COMMANDER OFF + CHANNEL+ + CHANNEL–	page 29
Transfer data	COMMANDER OFF + CHANNEL– + VOLUME–	page 38

To	Press	For details, see
Program a Channel Macro function	COMMANDER OFF + MUTING ↓ CHANNEL+ + Component Select	page 42
Turn the key-touch beep on / off	COMMANDER OFF + MUTING ↓ (ON) MUTING + VOLUME+ (OFF) MUTING + VOLUME–	page 50
Set the Auto Power-Off time	COMMANDER OFF + CHANNEL+ + VOLUME–	page 48
Set the Auto-Off time / brightness of the Backlight	COMMANDER OFF + LIGHT	page 49
Lock the Remote Commander	COMMANDER OFF + Display Panel	page 46
Protect the settings	COMMANDER OFF + MUTING	page 46
Create an Alias Component key	COMMANDER OFF + RECALL + Component Select	page 44
Adjust the beam interval (keys in each Component button)	COMMANDER OFF + CHANNEL– + Component Select	page 51
Adjust the beam interval (SYSTEM CONTROL buttons)	COMMANDER OFF + CHANNEL+ + MORE	page 52
Adjust the beam interval (Component buttons)	COMMANDER OFF + CHANNEL+ + Component Select	page 53

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